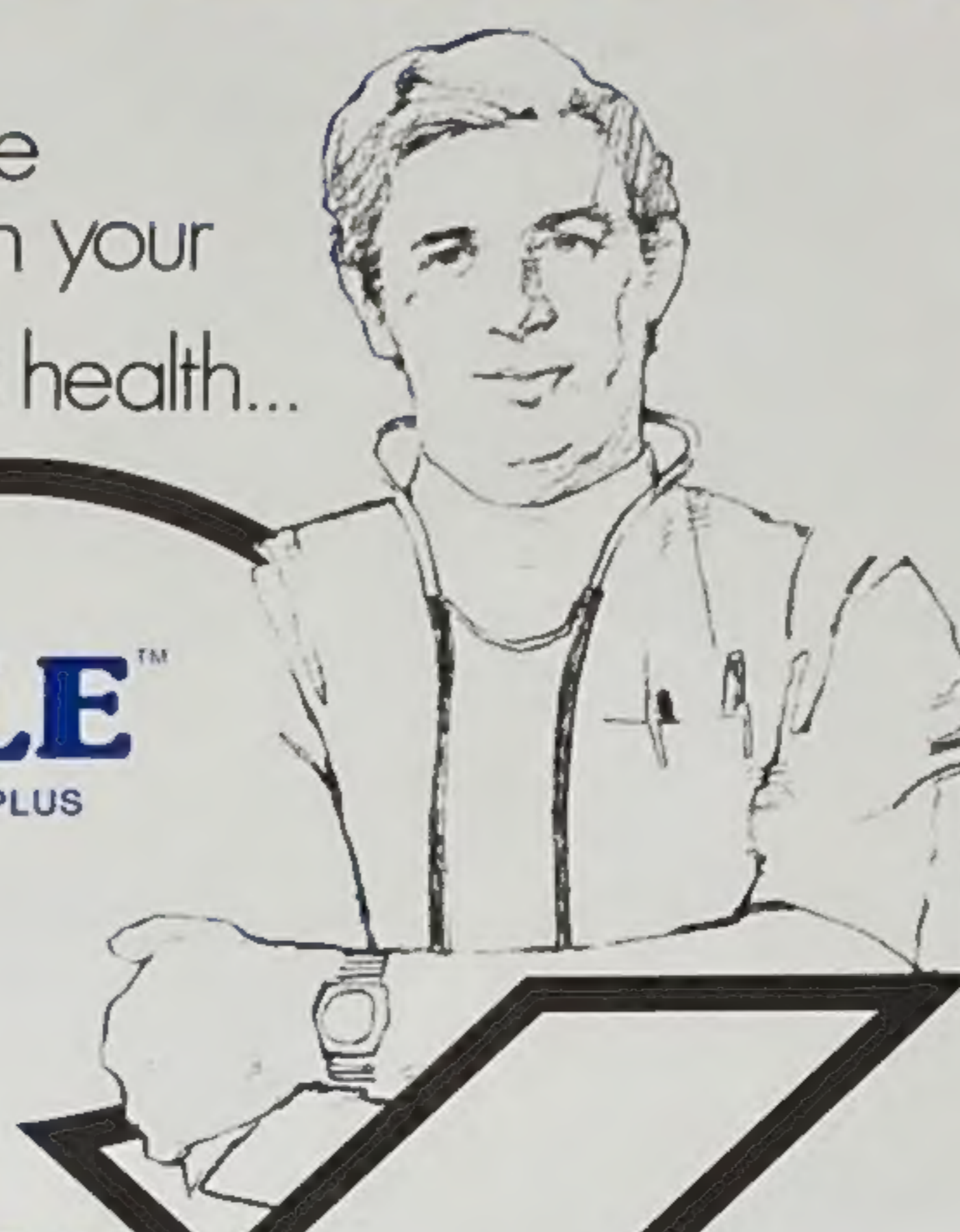




**APPLE-CILLIN II™**

Don't take  
a chance on your  
**APPLE's** health...



**APPLE™**  
APPLE II or II PLUS

**DIAGNOSTICS**

**XPS**

**APPLE-CILLIN II™**  
*System Diagnostic Utility*  
Front: DOS 3.3 Back: DOS 3.2

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*System Diagnostic Utility*

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***System Diagnostic Utility***

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The EXPANSION ROM TEST scans slots 1 through 7. If an EXPANSION ROM [Address space \$C800 - \$CFFF] is found, it is tested. The results for each slot are displayed. If no ROM is present in the slot, it is shown as MISSING and has a test value of 0. If a ROM is found in a slot, it is announced as PRESENT, and the TEST VALUE is displayed. You should record this number for each EXPANSION ROM you have in your system. Use the results print-out feature if you have a printer. Whenever this test is run, the results for a given ROM should NOT CHANGE. If the results change, it indicates a defect in the ROM or the system's communication with that ROM [dirty edge connector on the card etc.].

## DISK II SYSTEM

There are SEVEN DISK SYSTEM TESTS. All of these tests can be USED WITH ANY SLOT/DRIVE combination. Unpredictable results will occur if the chosen slot/drive does not represent an actual disk drive. If this is done, you should turn off the Apple and reboot the system. Because of this, you will be asked to verify [Y/N] both your slot choice and drive choice. Before any test begins you must type the letter 'S' to start the test.

The DISK FORMAT test is used to prepare a disk for use with the other disk system tests [no preparation needed for disk used with speed test]. It first formats the disk in the appropriate format [13 or 16 sector / DOS 3.2 or DOS 3.3]. It then writes data to every sector on the disk. The formatting terminates on any error that occurs during the format or write phase [disk is certified as read/write valid on all sectors when test is finished].

NOTE: This disk formatting is identical to the normal DOS you use EXCEPT that TEST DATA HAS BEEN WRITTEN TO EVERY SECTOR. THIS DISK WILL NOT BOOT AND MUST BE INITIALIZED IN THE NORMAL MANNER PRIOR TO ITS USE WITH DOS.

Four of the disk tests perform in a similar manner. They read and or write test data on each sector of the test disk and report the pass-fail status of each sector. They also report the precise error as it occurs. They also display the track and sector of the disk that is being affected by the test.

Two of the tests operate sequentially from track 0 to track 34 [all 35 tracks]. The other two tests operate by "randomly" selecting the track. There should be no hesitations or errors during the random head stepping of the test. If there are, it indicates that the drive is having problems positioning the read/write head correctly.

The final disk read test is the TRACK-SEEK test. This test randomly reads one hundred sectors on the disk. It is a quick test to find problems with accurate head positioning. The results displayed by this test show the number of bad track seeks in one hundred attempts.

The remaining disk system test is the DRIVE SPEED test. This test can be used to check or adjust [if you feel qualified to handle the task] the speed of any drive in your Apple system.

This test requires the use of a diskette which will have to be reinitialized after using this test. DO NOT USE A DISKETTE THAT HAS DATA YOU WISH TO ACCESS IN THE FUTURE - THE DATA WILL BE LOST FOREVER!

After choosing the drive on which to perform the test, place a disk in the drive and start the test. The screen will indicate the speed variation of the drive from ideal. This display is in HEX. Each unit deviation from zero represents a speed variation of .02% from ideal. Above this digital indicator is an indicator that moves from left to right on the screen [depending on whether the drive is slower or faster than it should be]. The symbol moves one character position at a time. Each hyphen above the symbol represents a speed variation bracket of .5% from the ideal. The symbol moves all the way to left and right of the screen, but wide variations from normal can be indicated digitally with the "needle" pinned at either side of the screen.

NOTE: THE DISK IN THE TEST DRIVE MUST BE WRITEABLE [NOT WRITE PROTECTED] OR THE TEST WILL PRODUCE RANDOM RESULTS.

## OTHER TESTS

The OTHER TESTS menu gives you a choice of seven additional system functions that can be tested. These are:

## PERIPHERAL CARDS

This selection is a test of each slot in your Apple to determine the contents of the slot. If a slot contains a memory or language card this fact is displayed [along with an FF test value]. Language and memory cards are

## APPLE-CILLIN II SPECIFICATION

APPLE-CILLIN II is a systems verification and diagnostic utility for any APPLE II or APPLE II Plus computer with at least one disk drive (DOS 3.2 or DOS 3.3). APPLE-CILLIN II is recommended for the professional Apple user.

APPLE-CILLIN II includes menu-driven utilities to test the following:

- System RAM Memory
- System ROM (Basic, Monitor, Autostart)
- Memory Card (16K and 32K)
- Language Card
- Firmware Language Cards (Integer or Applesoft)
- Disk System
- Disk Speed
- CPU Register
- Peripheral Card
- Printer
- Keyboard
- Tape Port
- Game Port

Additional features include Video Test Pattern Generator, printed test results, linked tests.....

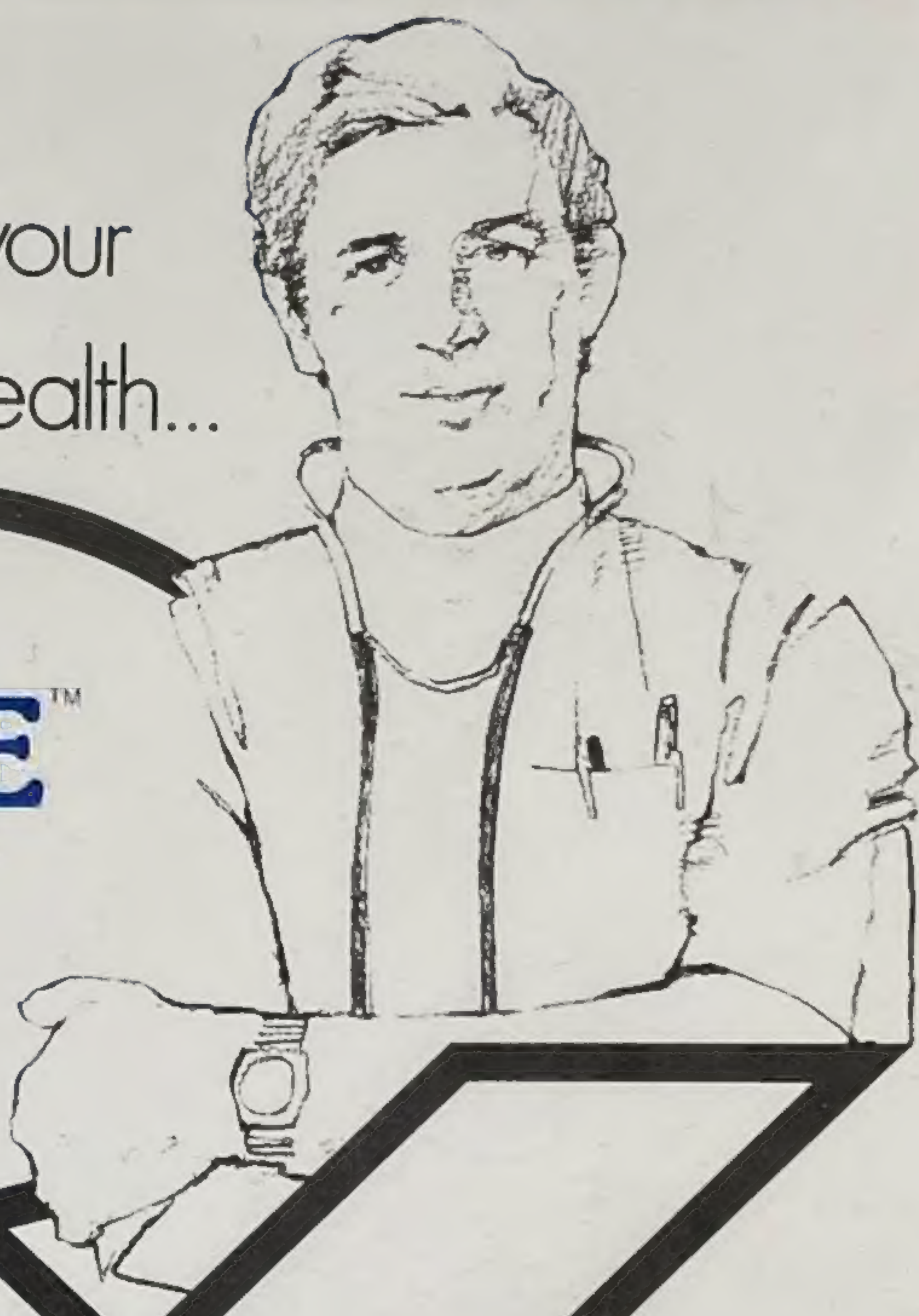


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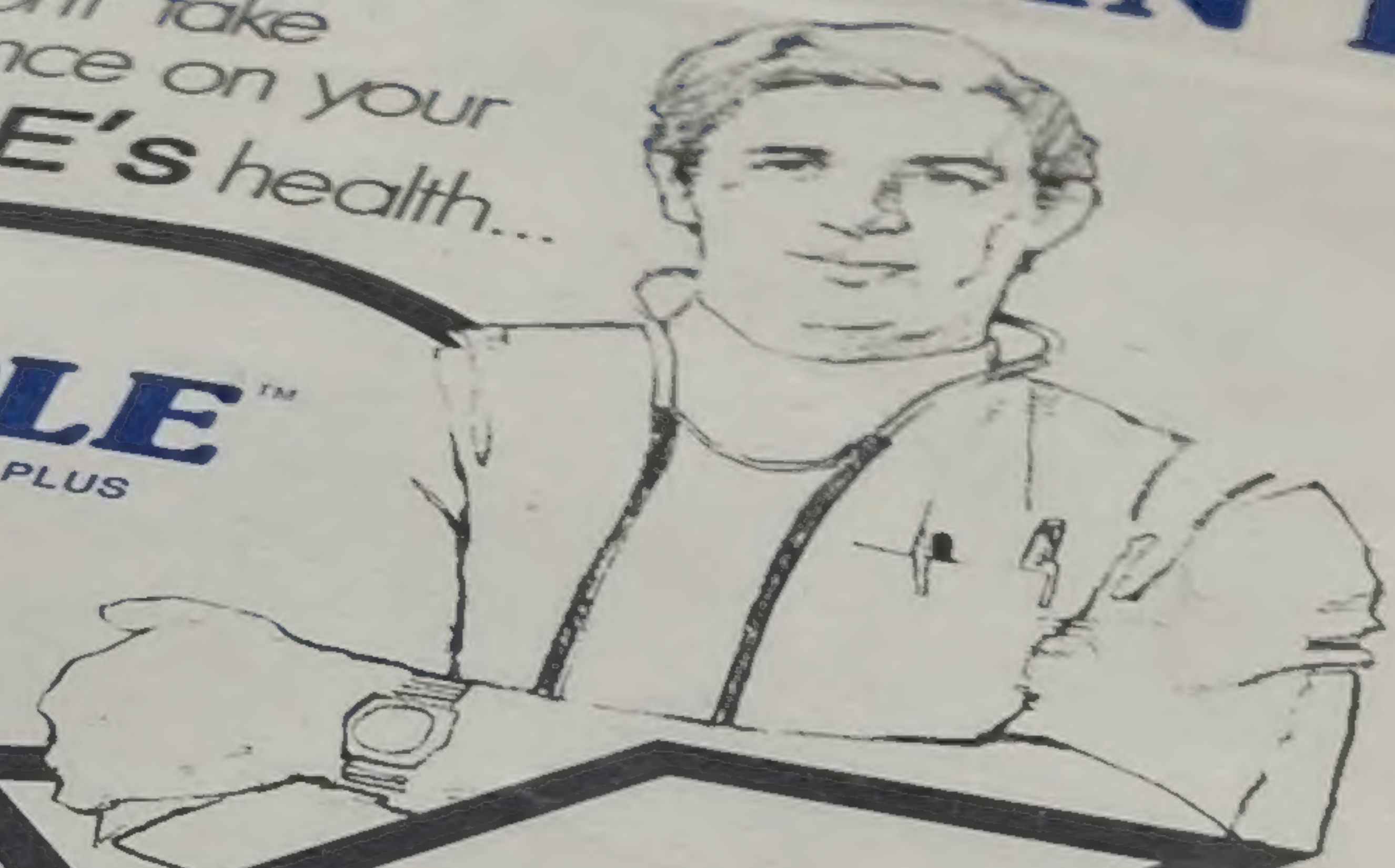


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